



FIRST FLOOR — PIPING PLAN
1/8" = 1'-0"

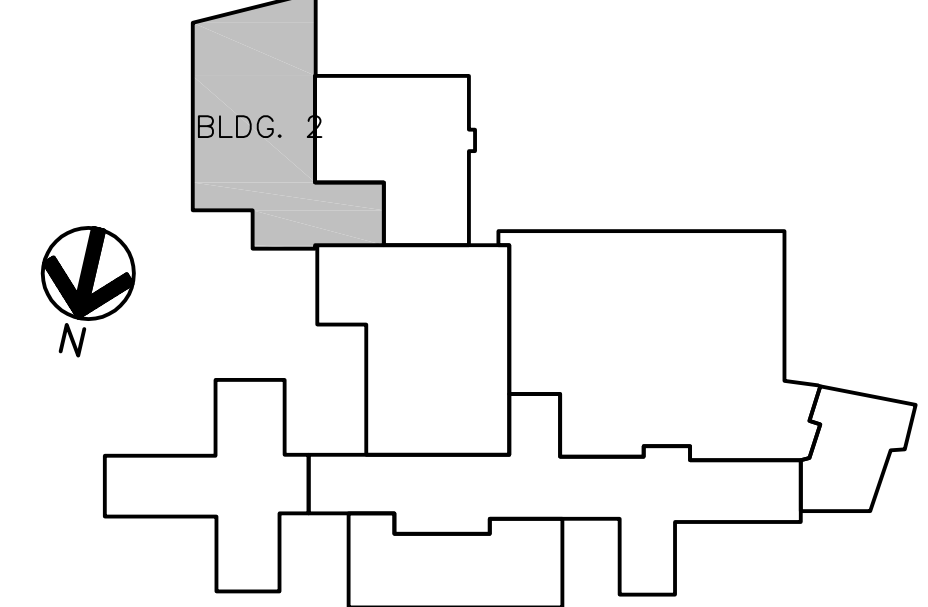
CONTROLS CONTRACTOR SHALL PROVIDE CONNECTION FROM BAS HEAD END TO EACH REFRIGERATOR AND FREEZER (16 TOTAL) FOR MONITORING AND LOGGING OF TEMPERATURES

GENERAL PIPING NOTES:

1. PIPING IS SHOWN IN SCHEMATIC FORM. ROUTE AS REQUIRED FOR CLEARANCE WITH EXISTING CONDITIONS AND OTHER TRADES.
2. UNIONS AND VALVES TO BREAK CONNECTIONS ARE REQUIRED AT ALL MAJOR EQUIPMENT AND ALL PIPING ITEMS THAT REQUIRE REMOVAL FOR MAINTENANCE.
3. PIPE REDUCTIONS ON HORIZONTAL PIPING GOING FROM LARGER TO SMALLER SHALL BE MADE WITH ECCENTRIC REDUCERS. TOP FLAT FOR LIQUID SYSTEMS. CONCENTRIC REDUCERS MAY BE USED FOR FLOW GOING FROM SMALL TO LARGER SIZE PIPE.
4. FIRE SAFE ALL PIPE PENETRATIONS PER UL AT RATED WALLS AND FLOORS.
5. FLOOR/WALL/CEILING PENETRATIONS REQUIRED FOR MECHANICAL PIPING INSTALLATION SHALL BE CLEANLY BORED AT RIGHT ANGLES. AS NEW PIPING IS INSTALLED, NEW PIPING PENETRATIONS SHALL BE NEATLY CAULKED TO FILL VOID. EXPOSED WALL PENETRATIONS SHALL BE FINISHED WITH ESCUTCHEONS.
6. ALL NEW EQUIPMENT AND ACCESSORIES (CIRCUIT SETTERS, CIRCULATION PUMPS, EXPANSION TANKS ETC.) SHALL BE INSTALLED SO AS TO BE EASILY ACCESSIBLE. ALL CLEARANCES FOR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS SHALL BE REQUIRED.
7. ALL CONDENSATE PIPING SHALL BE SLOPED 1/8" PER FOOT MINIMUM (TYP.)
8. COORDINATE ALL MECHANICAL PIPING WITH NEW AND EXISTING DUCTWORK AND DOMESTIC WATER, GAS, WASTE AND VENT, FIRE PROTECTION PIPING AND ELECTRICAL PANELS. CONTRACTOR TO PROVIDE AS BUILTS IF MAJOR MODIFICATIONS REQUIRED.
9. ALL EXPOSED CONDENSATE DROPS SHALL BE AS TIGHT TO WALL AS POSSIBLE.
10. BRANCH PIPING TO VARIABLE AIR VOLUME BOXES BE ROUTED HIGH AS POSSIBLE.
11. COORDINATE LOCATION OF ALL PIPING REQUIREMENTS WITH OTHER TRADES.
12. DO NOT ROUTE ANY PIPING OVER TOP OF ELECTRICAL PANELS PER NEC AND CODE REQUIRED CLEARANCES. COORDINATE WITH ELECTRICAL DRAWINGS.
13. ALL EXPOSED PIPING IN OCCUPIED AREAS SHALL BE WRAPPED AND INSULATED WITH PVC JACKETS.
14. CONNECTIONS BETWEEN DISSIMILAR PIPING MATERIALS SHALL BE MADE USING DIELECTRIC FITTINGS.
15. THERMOSTATS SHALL BE MOUNTED AT 4'-0" ABOVE FINISHED FLOOR.
16. REFER TO DETAILS FOR ADDITIONAL VALVING AND APPURTENANCES AT EQUIPMENT.

KEYED PIPING NOTES:

- 1 1/2" HWS UP.
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- LOCATION FOR DDC CONTROL PANELS (WATERTIGHT ENCLOSURE). CONTROLS CONTRACTOR TO VERIFY EXACT NUMBER TO BE PROVIDED AND COORDINATE WITH ELECTRICAL CONTRACTOR FOR QUANTITY OF 120 VOLT POWER CONNECTIONS REQUIRED.
- CONDENSATE DRAIN FROM BOU-1 DOWN TO FLOOR DRAIN, REFER TO SHEET 2-P1 FOR LOCATION.
- 4" STEAM VENT UP THROUGH ROOF, PROVIDE GOOSENECK WITH OPENING AT 18" ABOVE ROOF.
- OXYGEN SENSOR SYSTEM CONTROLLER IN WATERTIGHT ENCLOSURE WITH BAGNET COMMUNICATION FOR CONNECTION TO DDC CONTROL SYSTEM, 24 VOLT/0.4 AMP POWER PROVIDED THROUGH DDC SYSTEM.
- FLASHING LIGHT WITH HORN (MOUNTED AT 84" AFF) TO BE PROVIDED BY CONTROLS CONTRACTOR, LIGHT AND HORN SHALL ACTIVATE ON INITIATION OF THE OXYGEN SENSOR.
- OXYGEN SENSOR (MOUNTED AT 60" AFF) TO BE PROVIDED WITH CONTROLLER NOTED ABOVE.



KEY PLAN
NOT TO SCALE

2-1

Veterans Administration

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Drawing Title FIRST FLOOR PIPING PLAN		Project Title RENOVATE AND EXPAND SPACE FOR PATIENT SUPPORT AREAS		Date: 12-05-2014 CONSTRUCTION DOCUMENTS	
Approved: Division Chief	Building Number 2	Checked TRF	Drawn MSJ	Project No. DVA#636-311 S-H#110240-0	DRAWING NO. 2-H1
Approved: Service Director	Location IOWA CITY VA HEALTH CARE SYSTEM IOWA CITY, IOWA		Dwg. 13 of 24		